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FIG. 1

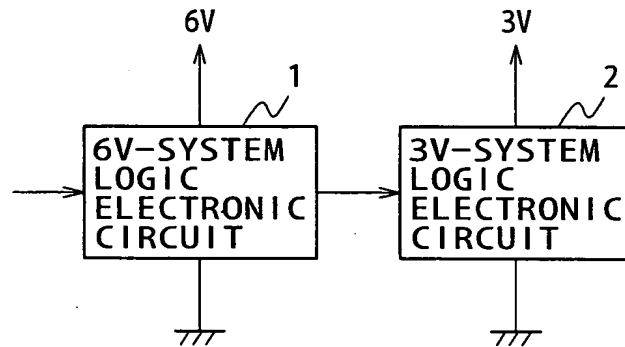


FIG. 2

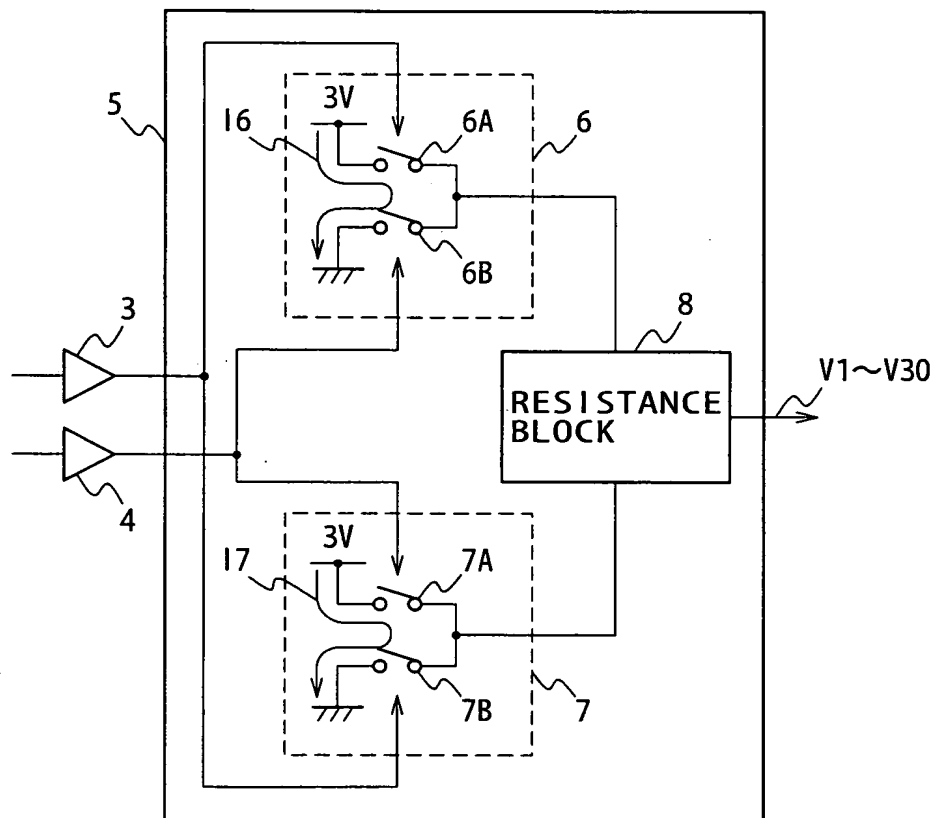


FIG. 4.

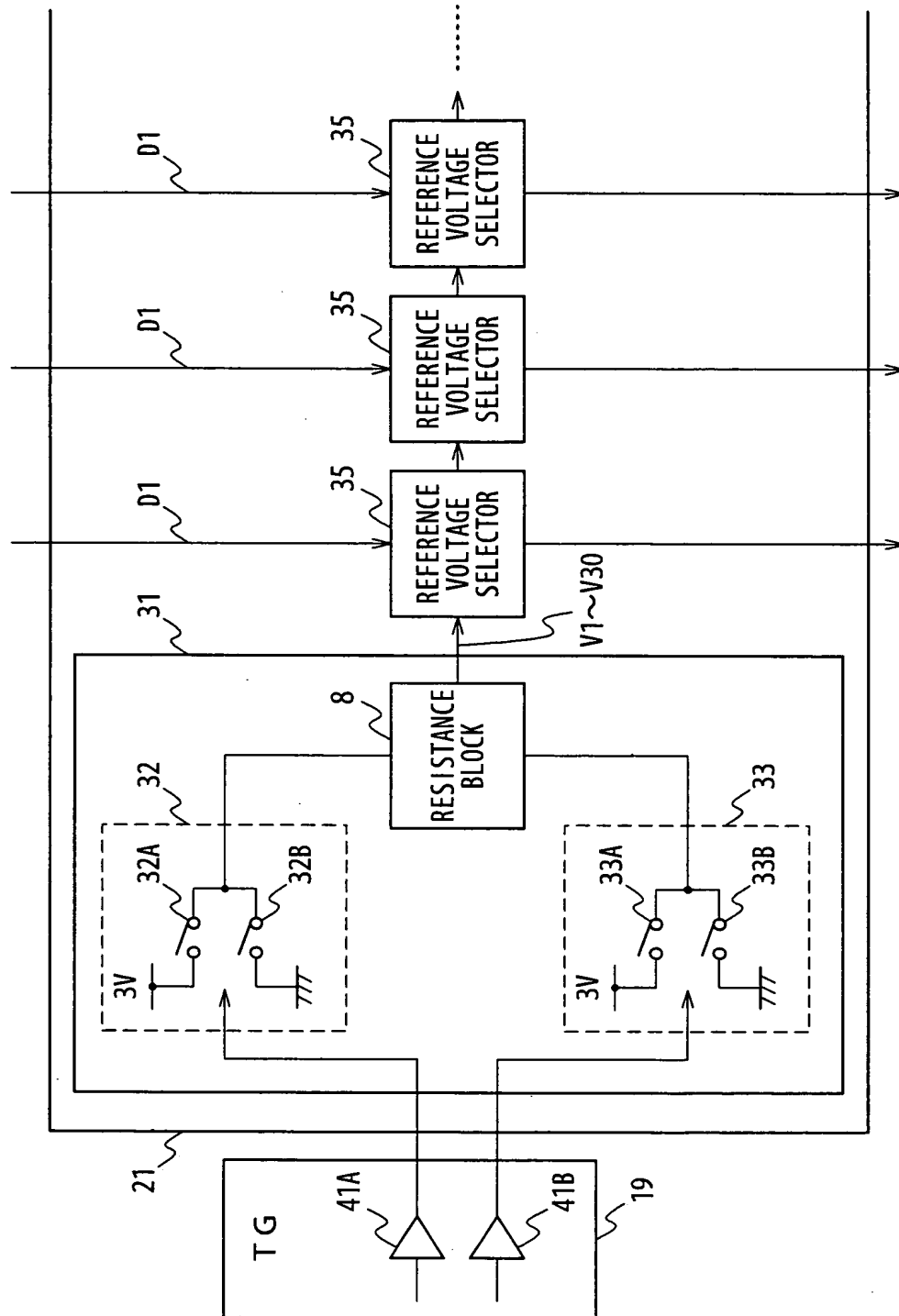
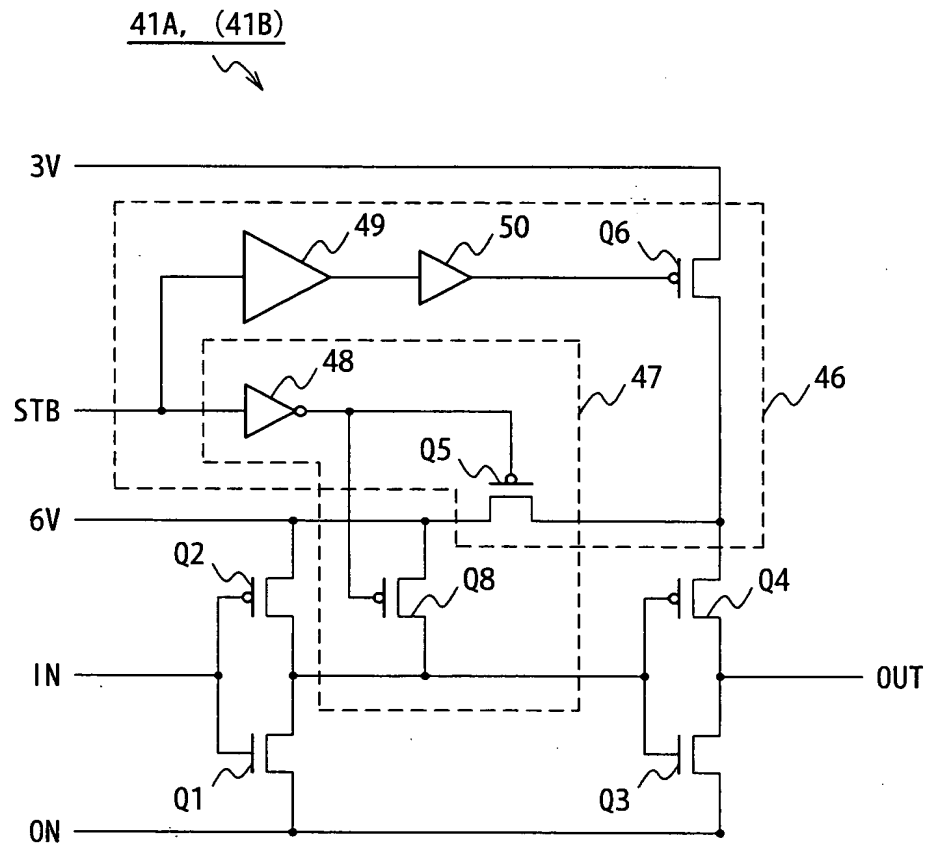


FIG. 5



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FIG. 6

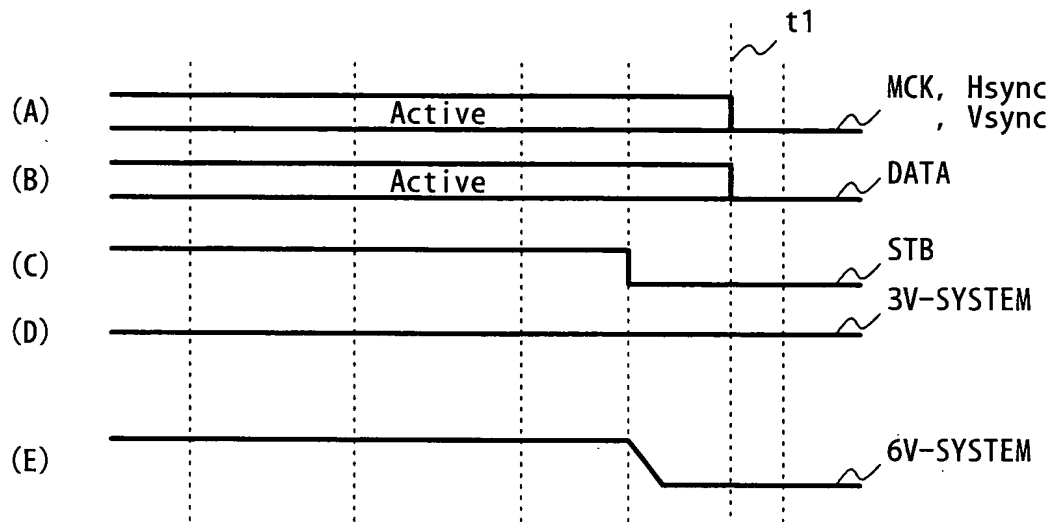
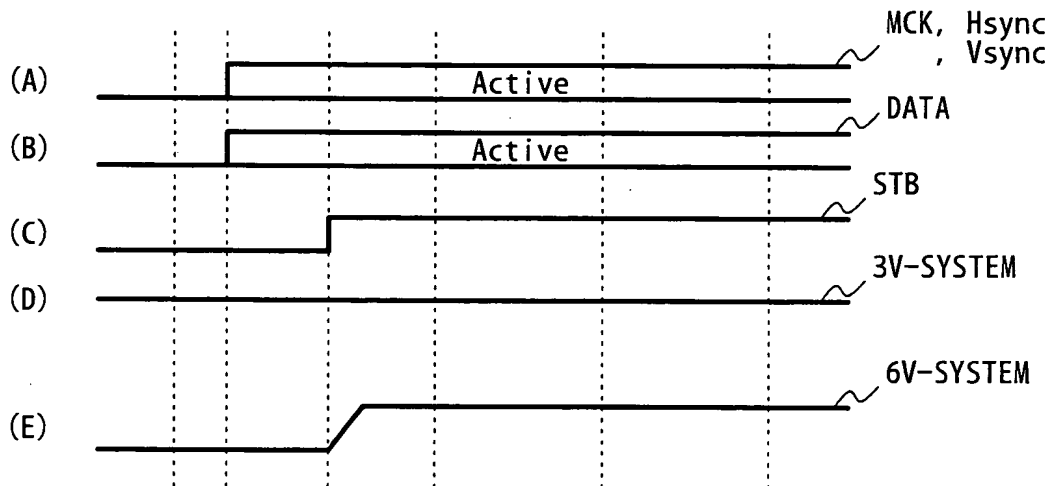


FIG. 7



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FIG. 8

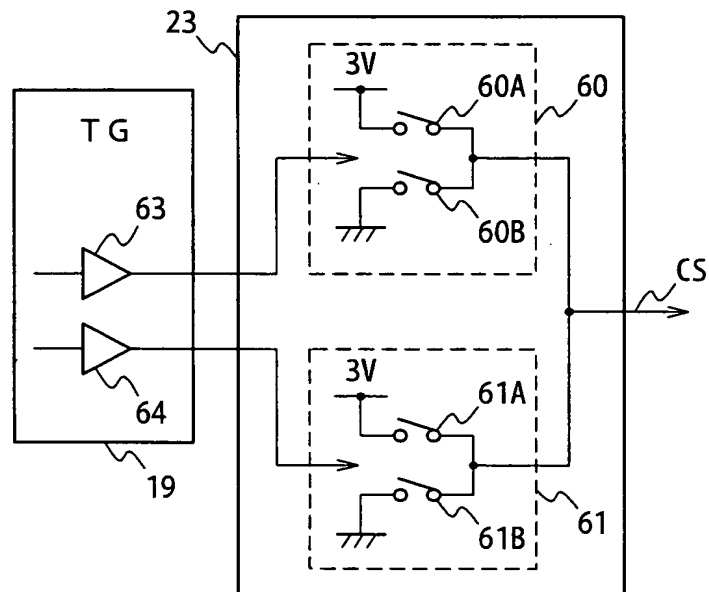
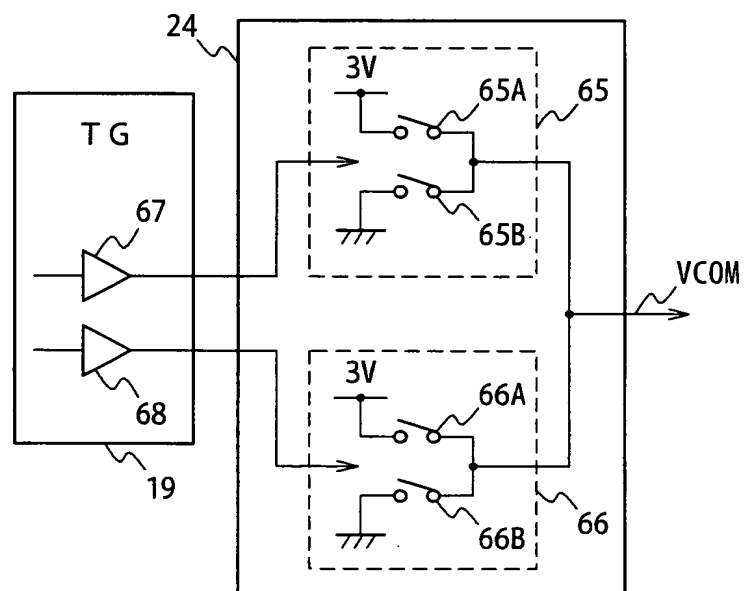


FIG. 9



Description of Reference Numerals

- 5 1, 2.....electronic circuit, 3, 4, 41A, 41B, 50, 63, 64, 67,
68.....buffer circuit, 5, 31.....reference voltage generating
circuit, 6, 6A, 6B, 7, 7A, 7B, 32, 32A, 32B, 33, 33A, 33B, 60,
60A, 60B, 61, 61A, 61B, 65, 65A, 65B, 66, 66A, 66B.....switch
circuit, 8.....resistance block, 11.....liquid crystal display
10 apparatus, 12.....liquid crystal cell, 13, Q1 to Q8.....transistor,
14.....storage capacitor, 16.....display unit, 17.....horizontal
drive circuit, 18.....vertical drive circuit, 19.....timing
generating circuit, 20.....shift register, 21..... digital-analog
conversion circuit, 22.....buffer circuit unit, 23.....CS drive
15 circuit, 24.....VCOM drive circuit, 25.....DC-DC converter,
31.....reference voltage generating circuit, 35.....reference
voltage selector, 46.....power supply switching circuit,
47.....level setting circuit, 48.....inverter, 49.....level shift
circuit